

SEQUENCE LISTING

<110> Analytica Ltd

<120> PHOSPHOLIPASE INHIBITORS FOR THE TREATMENT OF CANCER

<130> 2404732/EJH

<140> US 09/831,744

<141> 1999-11-12

<150> US 60/108,254

<151> 1998-11-12

<160> 45

<170> PatentIn version 3.0

<210> 1

<211> 202

<212> PRT

<213> Notechis scutatus

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Met Lys Ser Leu Gln Ile Ile Cys Leu Leu Phe Val Val Ala Arg
1 5 10 15

Gly Ser Cys His Ser Cys Glu Ile Cys His Asn Leu Gly Arg Asp Cys
20 25 30

Glu Thr Glu Glu Ala Glu Glu Cys Ala Ser Pro Glu Asp Gln Cys Gly
35 40 45

Thr Val Leu Met Glu Val Ser Ser Ala Pro Ile Ser Phe Arg Ser Ile
50 55 60

His Arg Asn Cys Phe Ser Ser Ser Leu Cys Lys Leu Glu Arg Phe Asp
65 70 75 80

Ile Asn Ile Gly His Asp Ser Tyr Leu Arg Gly Arg Ile His Cys Cys
85 90 95

Asp Glu Ala Arg Cys Glu Ala Gln Gln Phe Pro Gly Leu Pro Leu Ser
100 105 110

Phe Pro Asn Gly Tyr His Cys Pro Gly Ile Leu Gly Val Phe Ser Val
115 120 125

Asp Ser Ser Glu His Glu Ala Ile Cys Arg Gly Thr Glu Thr Lys Cys
130 135 140

Ile Asn Leu Ala Gly Phe Arg Lys Glu Arg Phe Pro Gly Asp Ile Ala
145 150 155 160

Tyr Asn Ile Lys Gly Cys Thr Ser Ser Cys Pro Glu Leu Arg Leu Ser
165 170 175

Asn Arg Thr His Glu Glu Asp Arg Asn Gly Leu Ile Lys Val Glu Cys
180 185 190

Thr Asp Ala Ser Lys Ile Thr Pro Ser Glu
195 200

<210> 2

<211> 202

<212> PRT

<213> Oxyuranus scutellatus

<400> 2

Met Ile Ser Leu Gln Ile Ile Cys Phe Leu Phe Val Leu Val Ala Arg
1 5 10 15

Gly Ser Cys His Ser Cys Glu Ile Cys Arg Asn Phe Gly Lys Asp Cys
20 25 30

Glu Ser Glu Glu Ala Glu Glu Cys Ala Ser Pro Glu Asp Gln Cys Gly
35 40 45

Thr Val Leu Leu Glu Ile Ser Ser Ala Pro Ile Ser Phe Arg Ser Ile
50 55 60

His Arg Asn Cys Phe Ser Ser Ser Leu Cys Lys Leu Glu His Phe Asp
65 70 75 80

Ile Asn Ile Gly His Asp Ser Tyr Val Arg Gly Arg Ile His Cys Cys
85 90 95

Asp Glu Glu Arg Cys Glu Ala Gln Gln Phe Pro Gly Leu Pro Pro Ser
100 105 110

Leu Pro Asn Gly Tyr His Cys Pro Gly Ile Leu Gly Ala Phe Ser Val
115 120 125

Asp Ser Ser Glu His Glu Ala Ile Cys Arg Gly Thr Glu Thr Lys Cys
130 135 140

Ile Asn Leu Ala Gly Phe Arg Lys Glu Arg Tyr Pro Val Asp Ile Ala
145 150 155 160

Tyr Asn Ile Thr Gly Cys Thr Ser Ser Cys Pro Glu Leu Lys Leu Ser
165 170 175

Asn Arg Thr His Ala Glu Arg Arg Asn Ala Leu Ile Thr Leu Asp Cys
180 185 190

Thr Asp Ala Ser Lys Ile Ala Pro Ser Glu
195 200

<210> 3

<211> 609

<212> DNA

<213> Oxyuronus microlepidotus

<220>

<221> CDS

<222> (1)...(606)

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gga agc tgt cgc tca tgt gaa att tgt cac aat ttt gga aaa gat tgc			96
Gly Ser Cys Arg Ser Cys Glu Ile Cys His Asn Phe Gly Lys Asp Cys			
20 25 30			
gag agt gag gag gca gag gaa tgt gcc tct cca gaa gat caa tgt ggc			144
Glu Ser Glu Glu Ala Glu Glu Cys Ala Ser Pro Glu Asp Gln Cys Gly			
35 40 45			
aca gtg ttg ctg gag att tca tca gca cct att tcc ttc cga tcc att			192
Thr Val Leu Leu Glu Ile Ser Ser Ala Pro Ile Ser Phe Arg Ser Ile			
50 55 60			
cat agg aac tgt ttc tca tcc agc ctc tgc aaa ctt gaa cac ttt gat			240
His Arg Asn Cys Phe Ser Ser Ser Leu Cys Lys Leu Glu His Phe Asp			
65 70 75 80			
ata aat att gga cat gat tcc tat gtg aga gga aga atc cac tgt tgt			288
Ile Asn Ile Gly His Asp Ser Tyr Val Arg Gly Arg Ile His Cys Cys			
85 90 95			
gat gaa gaa agg tgt gaa gca cag caa ttt cct gga ctg ccc ctc tcc			336
Asp Glu Glu Arg Cys Glu Ala Gln Gln Phe Pro Gly Leu Pro Leu Ser			
100 105 110			
ttt cca aat gga tac cac tgc cct ggc att ctt ggt gca ttc tca gtg			384
Phe Pro Asn Gly Tyr His Cys Pro Gly Ile Leu Gly Ala Phe Ser Val			
115 120 125			
gac agc tct gaa cat gaa gct att tgc aga gga acc gaa acc aaa tgc			432
Asp Ser Ser Glu His Glu Ala Ile Cys Arg Gly Thr Glu Thr Lys Cys			
130 135 140			
att aac ctt gcg gga ttc aga aaa gaa aga tat cct gta gac atc gct			480

Ile Asn Leu Ala Gly Phe Arg Lys Glu Arg Tyr Pro Val Asp Ile Ala			
145	150	155	160
tat aat atc aaa ggt tgc act tct tct tgt cca gaa ctg aag ttg agc			
Tyr Asn Ile Lys Gly Cys Thr Ser Ser Cys Pro Glu Leu Lys Leu Ser			
165	170	175	528
aat aga act cac gaa gaa cgt aga aat gat cta ata aca ctt gaa tgt			
Asn Arg Thr His Glu Glu Arg Arg Asn Asp Leu Ile Thr Leu Glu Cys			
180	185	190	576
aca gat gcc tcc aaa att aca cct tcc gaa taa			
Thr Asp Ala Ser Lys Ile Thr Pro Ser Glu			
195	200		609
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<212> PRT			
<213> Oxyuranus microlepidotus			
<400> 4			
Met Lys Ser Leu Gln Ile Ile Cys Pro Leu Phe Val Leu Val Ala Arg			
1	5	10	15
Gly Ser Cys Arg Ser Cys Glu Ile Cys His Asn Phe Gly Lys Asp Cys			
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Glu Ser Glu Glu Ala Glu Glu Cys Ala Ser Pro Glu Asp Gln Cys Gly			
35	40	45	
Thr Val Leu Leu Glu Ile Ser Ser Ala Pro Ile Ser Phe Arg Ser Ile			
50	55	60	
His Arg Asn Cys Phe Ser Ser Ser Leu Cys Lys Leu Glu His Phe Asp			
65	70	75	80
Ile Asn Ile Gly His Asp Ser Tyr Val Arg Gly Arg Ile His Cys Cys			
85	90	95	

Asp Glu Glu Arg Cys Glu Ala Gln Gln Phe Pro Gly Leu Pro Leu Ser
100 105 110

Phe Pro Asn Gly Tyr His Cys Pro Gly Ile Leu Gly Ala Phe Ser Val
115 120 125

Asp Ser Ser Glu His Glu Ala Ile Cys Arg Gly Thr Glu Thr Lys Cys
130 135 140

Ile Asn Leu Ala Gly Phe Arg Lys Glu Arg Tyr Pro Val Asp Ile Ala
145 150 155 160

Tyr Asn Ile Lys Gly Cys Thr Ser Ser Cys Pro Glu Leu Lys Leu Ser
165 170 175

Asn Arg Thr His Glu Glu Arg Arg Asn Asp Leu Ile Thr Leu Glu Cys
180 185 190

Thr Asp Ala Ser Lys Ile Thr Pro Ser Glu
195 200

<210> 5

<211> 28

<212> PRT

<213> Notechis scutatus

<220>

<221> misc_feature

<222> (16)..(16)

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Thr Lys Thr Cys Asp Ala Asn Gln Asp Thr Cys Val
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<210> 6

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<212> PRT
<213> Notechis scutatus

<400> 6
Leu Glu Cys Glu Ile Cys Ile Gly Leu Gly Leu Glu Cys Asn
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<210> 7
<211> 5
<212> PRT
<213> Notechis scutatus

<400> 7
Ala Leu Ser Tyr Lys
1 5

<210> 8
<211> 19
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<213> Notechis scutatus

<400> 8
Ser Cys Gly Thr Ser Asp Thr Cys His Leu Asn Tyr Val Glu Thr Thr
1 5 10 15

Pro His Asn

<210> 9
<211> 18
<212> PRT
<213> Notechis scutatus

<400> 9
Thr Cys Asp Ala Asn Gln Asp Thr Cys Val Thr Phe Gln Thr Glu Val
1 5 10 15

Ile Arg

<210> 10
<211> 8
<212> PRT
<213> Notechis scutatus

<400> 10
Ala Pro Val Thr Leu Gly Leu Ile
1 5

<210> 11
<211> 10
<212> PRT
<213> Notechis scutatus

<400> 11
Glu Cys Thr Glu His Leu Val Ser Cys Arg
1 5 10

<210> 12
<211> 13
<212> PRT
<213> Notechis scutatus

<400> 12
Phe Trp Asn Val Leu Glu Asp Val Glu Val Asp Phe Lys
1 5 10

<210> 13
<211> 29
<212> PRT
<213> Notechis ater

<400> 13
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1 5 10 15

Glu Ala Glu Glu Cys Ala Ser Pro Glu Asp Gln Cys Gly

20 25

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<213> Notechis ater

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1 5 10 15

Glu Thr Glu Glu Cys Ala Ser Pro Glu Asp Gln Cys Gly
20 25

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<400> 15
Ile Thr Pro Ser Glu
1 5

<210> 16
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<400> 16
Arg Phe Asp Ile Asn Ile
1 5

<210> 17
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<400> 17
Ile Asn Leu Ala Gly Phe
1 5

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<400> 18
Ala Ser Lys Ile Thr Pro Ser Glu
1 5

<210> 19
<211> 7
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<213> Notechis ater

<400> 19
Tyr Pro Gly Asp Ile Ala Ile
1 5

<210> 20
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<212> PRT
<213> Notechis ater

<400> 20
Leu Glu Cys Glu Ile Cys Ile Gly Leu Gly Leu Glu Cys Asn Thr Trp
1 5 10 15

Thr Lys Thr Cys Asp Ala Asn Gln Asp Thr Cys Val
20 25

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<400> 21
Ala Leu Ser Tyr Lys
1 5

<210> 22
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<400> 22
Ser Cys Gly Thr Ser Asp Thr Cys His Leu Asn Tyr Val Glu Thr Thr
1 5 10 15

Pro His Asn

<210> 23
<211> 18
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1 5 10 15

Ile Arg

<210> 24
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<213> Notechis ater

<400> 24
Ala Pro Val Thr Leu Gly Leu Ile
1 5

<210> 25
<211> 10
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<213> Notechis ater

<400> 25
Glu Cys Thr Glu His Leu Val Ser Cys Arg
1 5 10
11

<210> 26
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<213> Notechis ater

<400> 26
Phe Trp Asn Val Leu Glu Asp Val Glu Val Asp Phe Lys
1 5 10

<210> 27
<211> 10
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<213> Notechis ater

<400> 27
Gly Ser Glu Asn Gln Cys Lys Ser Ile Ile
1 5 10

<210> 28
<211> 22
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<213> Notechis ater

<400> 28
Val Asn Pro Pro Asn Gly Leu Gln Cys Pro Gly Cys Leu Gly Leu Ser
1 5 10 15

Ser Leu Glu Cys Thr Glu
20

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Cys Gly Thr Ser Asp Thr Cys His Leu Asn Tyr Val Glu Thr
1 5 10

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Glu Phe Gly Leu Phe Phe Arg
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<210> 31
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His Ser Cys Glu Ile Cys His Asn Phe Gly Lys Asp Cys Glu Gly Gly
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Glu Thr Glu Glu Cys Ala Ser Pro Glu Asp Gln Cys Gly Thr Val Leu
20 25 30

Met Glu Val Ser Thr Ala Pro Ile Ser Phe Arg Ser Ile His Arg Asn
35 40 45

Cys Phe Ser Ser Ser Leu Cys Lys Leu Glu Arg Phe Asp Ile Asn Ile
50 55 60

Gly His Asp Ser Phe Leu Arg Gly Arg Ile His Cys Cys Asp Glu Ala
65 70 75 80

Arg Cys Glu Ala Gln Gln Phe Pro Gly Leu Pro Leu Ser Phe Pro Asn
85 90 95

Gly Tyr His Cys Pro Gly Ile Leu Gly Leu Phe Ser Val Asp Ser Ser
100 105 110

Glu His Glu Ala Ile Cys Arg Gly Thr Glu Thr Lys Cys Ile Asn Leu
115 120 125

Ala Gly Phe Arg Arg Glu Arg Phe Pro Gly Asp Ile Ala Tyr Asn Ile
130 135 140

Lys Gly Cys Thr Ser Ser Cys Pro Glu Leu Arg Leu Ser Asn Arg Thr
145 150 155 160

His Glu Glu His Arg Asn Asp Leu Ile Lys Val Glu Cys Thr Glu Ala
165 170 175

Ser Lys Asn Thr Pro Ser Glu
180

<210> 32

<211> 182

<212> PRT

<213> Notechis ater

<400> 32

His Ser Cys Glu Ile Cys His Asn Phe Gly Lys Asp Cys Gln Ser Asp
1 5 10 15

Glu Thr Glu Glu Cys Ala Ser Ala Glu Asp Gln Cys Gly Thr Val Leu
20 25 30

Met Glu Val Ser Ser Ala Pro Ile Ser Phe Arg Ser Ile His Arg Lys
35 40 45

Cys Phe Ser Ser Ser Leu Cys Lys Leu Glu Arg Phe Asp Ile Asn Ile
50 55 60

Gly His Asp Ser Tyr Leu Arg Gly Arg Ile His Cys Cys Asp Glu Ala
65 70 75 80

Arg Cys Glu Ala Gln Gln Phe Pro Gly Leu Pro Leu Ser Phe Pro Asn
85 90 95
14

Gly Tyr His Cys Pro Gly Ile Leu Gly Val Phe Ser Val Asp Ser Ser
100 105 110

Glu His Glu Ala Ile Cys Arg Gly Thr Glu Thr Lys Cys Ile Asn Leu
115 120 125

Ala Gly Phe Arg Lys Glu Arg Tyr Pro Ile Asp Ile Ala Tyr Asn Ile
130 135 140

Lys Gly Cys Thr Ser Ser Cys Pro Glu Leu Arg Leu Asn Arg Thr His
145 150 155 160

Glu Glu His Arg Asn Asp Leu Ile Lys Val Glu Cys Thr Glu Ala Ser
165 170 175

Lys Ile Thr Pro Ser Glu
180

<210> 33

<211> 183

<212> PRT

<213> Notechis ater

<400> 33

His Ser Cys Glu Ile Cys His Asn Phe Gly Lys Asp Cys Glu Gly Gly
1 5 10 15

Val Thr Glu Glu Cys Ala Ser Pro Glu Asp Gln Cys Gly Thr Val Leu
20 25 30

Leu Glu Val Ser Thr Ala Pro Ile Ser Thr Arg Thr Ile His Arg Asn
35 40 45

Cys Phe Ser Ser Ser Leu Cys Lys Leu Glu Arg Phe Asp Ile Asn Ile
50 55 60

Gly His Asp Ser Tyr Met Arg Gly Arg Ile His Cys Cys Asp Glu Ala
65 70 75 80

Arg Cys Glu Ala Gln Gln Phe Pro Gly Leu Pro Leu Ser Phe Pro Asn
85 90 95

Gly Tyr His Cys Pro Gly Ile Leu Gly Leu Phe Ser Val Asp Ser Ser
100 105 110

Glu His Glu Ala Ile Cys Arg Gly Ser Glu Thr Lys Cys Ile Lys Ile
115 120 125

Ala Gly Phe Arg Arg Glu Arg Tyr Pro Ile Asp Ile Ala Tyr Asn Ile
130 135 140

Lys Gly Cys Thr Ser Ser Cys Pro Glu Leu Arg Leu Ser Asn Arg Thr
145 150 155 160

His Glu Glu His Arg Asn Asp Leu Ile Lys Val Glu Cys Thr Asp Ala
165 170 175

Ser Lys Ile Thr Pro Ser Glu
180

<210> 34

<211> 181

<212> PRT

<213> Notechis ater

<400> 34

Leu Glu Cys Glu Ile Cys Ile Gly Leu Gly Leu Glu Cys Asn Thr Trp
1 5 10 15

Thr Lys Thr Cys Asp Ala Asn Gln Asp Thr Cys Val Thr Phe Gln Thr
20 25 30

Glu Val Ile Arg Ala Pro Val Ser Leu Ser Leu Ile Ser Lys Ser Cys
35 40 45

Gly Thr Ser Asp Thr Cys His Leu Asn Tyr Val Glu Thr Ser Pro His
50 55 60

Asn Glu Leu Thr Val Lys Thr Lys Arg Thr Cys Cys Thr Gly Glu Glu
65 70 75 80

Cys Lys Thr Leu Pro Pro Pro Val Leu Gly His Lys Val Asn Pro Pro
85 90 95

Asn Gly Leu Gln Cys Pro Gly Cys Leu Gly Leu Ser Ser Lys Glu Cys
100 105 110

Thr Glu His Leu Val Ser Cys Arg Gly Ser Glu Asn Gln Cys Leu Ser
115 120 125

Ile Ile Gly Lys Glu Phe Gly Leu Phe Phe Arg Ala Leu Ser Tyr Lys
130 135 140

Gly Cys Ala Thr Glu Ser Leu Cys Thr Leu Phe Glu Lys Arg Phe Trp
145 150 155 160

Asn Val Leu Glu Asp Val Glu Val Asp Phe Lys Cys Thr Pro Ala Leu
165 170 175

Pro Lys Ser Ser Gln

180

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<211> 500

<212> DNA

<213> Notechis ater

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gatataaata	ttggacatga	ttccttttg	agaggaagaa	tccactgttg	tcatgaagca	240
aggtgtgaag	cacagcaatt	tcctggactg	cccctctcct	ttccaaatgg	ataccactgc	300
cctggaattc	ttggtttatt	ctcagtggac	agctctgaac	atgaagctat	ttgcagagggaa	360
actgaaacca	aatgcattaa	ccttgcggga	ttcagaagag	aaagattcc	tggagacatc	420
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acgaagaaca	tagaaatgac					500

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 <212> DNA
 <213> *Notechis ater*

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 tccttccatgc ccattccatag gaagtgtttc tcatccagcc tctgcaaact tgaacgcttt 180
 gatataaata ttggacatga ttccatattt agaggaagaa tccactgttgc tgcataat 240
 aggtgtgaag cacagcaatt tcctggactg cccctctcct ttccaaatgg ataccactgc 300
 cctggcatttc ttgggttatt ctcagtggac agctctgaac atgaagctat ttgcagagga 360
 actgaaacca aatgcattaa ccttgcgggaa ttccagaagaa aaagatatcc tatagacatc 420
 gcttataata tcaaagggttgc acttcttct tgcataatgg tgcataatgg tagaactcac 480
 gaaacata gaaatgtatc a 501

<210> 37
 <211> 501
 <212> DNA
 <213> *Notechis ater*

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 tcacccggaa ccattccatag gaactgtttc tcatccagcc tctgcaaact tgaacgcttt 180
 gatataaata ttggacatga ttccatatgc agaggaagaa tccactgttgc tgcataat 240
 aggtgtgaag cacagcaatt tcctggactg cccctctcct ttccaaatgg ataccactgc 300
 cctggcatttc ttgggttatt ctcagtggac agctctgaac atgaagctat ttgcagagga 360
 actgaaacca aatgcattaa aattgcgggaa ttccagaagagaa aaagatatcc tatagacatc 420
 gcttataata tcaaagggttgc acttcttct tgcataatgg tgcataatgg caatagaactcac 480
 cacgaagaac atagaaatgtatc a 501

<210> 38
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 <212> DNA
 <213> *Notechis ater*

<400> 38
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ctctcttga tttcaaaatc ctgtggtaact tctgacactt gccatcttaa ctacgtggag 180
acgagtccac ataatgaact aacagtgaag accaaaagaa cctgctgtac tggggaggaa 240
tgtaaaactc tgccaccgccc tggcttggc cacaaggtaa acccacccaa cggacttcag 300
tgtcctggat gccttggatt gtcctcaaaa gaatgcactg aacacctgg ttcctgccgg 360
ggatctgaaa accagtgttt gtctataatt gggaaagaat ttggcctttt cttcagagca 420
ttgtcttata aaggatgtgc tacggagagt ctgtgcactt tatttgagaa gaggttctgg 480
aatgttttag aggatgttga aacaacatac tccaaaacag cccaaaacagc caaaacagca 540
ctacatactc ctaaccgtat gcacaacaac caaaatgaa atccctacag atcatctgc 600
ttctttcgt tttggtagcc agaggaagct gtccaaaatg aaatccctac agatcatctg 660
tcttccttc gtttggtag ccagaggaag ctgtccaaaatg tggaaatccct acagatcatc 720
tgtcttctt tcgtttggt agccagagga agctgtacta caacctaaat gaagtccctc 780
ttattctgtt gcctcttgg cactttctta gctacaggca tgtgt 825

<210> 39

<211> 19

<212> PRT

<213> Notechis ater

<400> 39

Met Lys Ser Leu Gln Ile Ile Cys Leu Leu Phe Val Val Ala Arg

1

5

10

15

Gly Ser Cys

<210> 40

<211> 19

<212> PRT

<213> Notechis ater

<400> 40

Met Lys Ser Leu Gln Ile Ile Cys Leu Leu Phe Val Val Ala Arg

1

5

10

15

Gly Ser Cys

<210> 41

<211> 19

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<213> Notechis ater

<400> 41

Met Lys Ser Leu Gln Ile Ile Cys Leu Leu Phe Val Leu Val Ala Arg

1 5 10

Gly Ser Cys

<210> 42

<211> 19

<212> PRT

<213> Notechis ater

<400> 42

Met Lys Ser Leu Leu Phe Cys Cys Leu Phe Gly Thr Phe Leu Ala Thr

1 5 10 15

Gly Met Cys

<210> 43

<211> 57

<212> DNA

<213> Notechis ater

<400> 43

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57

<210> 44

<211> 57

<212> DNA

<213> Notechis ater

<400> 44

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57

<210> 45

<211> 57

<212> DNA

<213> Notechis ater

<400> 45

atgaaatccc tacagatcat ctgtcttctt ttcgtttgg tagccagagg aagctgt

57